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ABSTRACT

Today and in the future, critical toolmaking advances will need to be made in the area of circuit design, construction, and implementation. Traditional school curriculum has sidestepped the area of tool design, especially at the elementary level. This publication addresses a calling for a new curriculum direction, based not only on the study of word constructions, but also on the construction of tangible objects and manipulatives for students as low as kindergarten level. Many ideas, activities, and suggestions are provided to help students, teachers, and schools to perform inexpensive, real, hands-on electrical and electronic experiments. The topics covered include: (1) electrons; (2) light-emitting diodes; (3) switches; (4) AND, OR, NOT, NAND, and NOR gate circuits; (5) photoresistors; and (6) mechanical switching. (MVL)

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